

CLAIMS

We claim:

5 ~~Sub B1~~ In a non-solid structural polyurethane adhesive composition comprising a polyurethane prepolymer reaction product of a polyisocyanate and a polyol composition and a curative for isocyanate groups, the improvement which comprises a polyurethane prepolymer reaction product consisting essentially of at least 80 wt% perfect prepolymers and less than 2 wt% free polyisocyanate monomer.

10 2. The structural adhesive of Claim 1 in which the polyurethane prepolymer reaction product consists essentially of at least 90 wt% perfect prepolymers.

3. The structural adhesive of Claim 1 in which the polyurethane prepolymer reaction product consists essentially of less than 0.5 wt% free polyisocyanate monomer.

15 4. The structural adhesive of Claim 1 in which the polyisocyanate is hexamethylene diisocyanate, phenylene diisocyanate, toluene diisocyanate (TDI) 4,4'-diphenyl-methane diisocyanate (MDI), isophorone diisocyanate (IPDI) or bis-(4-isocyanatocyclohexyl) methane.

50 5. The structural adhesive of Claim 1 in which the polyol is a polyether polyol or a polyester polyol.

6. The structural adhesive of Claim 5 in which the polyol is a polyether polyol or a polyester polyol.

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